# **WA State Consolidated Technology Services State Data Center Projects**

Prepared By:	Consolidated Technology Services
Date: 7/09/2013	Period Covered: August 19 – August 30

Project Dachboard

Project Dashboard			
Project Name	Scope	Schedule	Budget
SDC Program			
OB2 Heat Reduction	(co	mplet	ed)
SDC Facilities Build out	(completed)		
SDC Network Core Infrastructure	(completed)		
SDC Firewall Infrastructure	(completed)		
SDC Storage Infrastructure	(completed)		
CTS Cloud POC			
CTS Move Phase 1			
Virtual Tape Library			
CTS Move Phase 2			
OB2 Data Center Optimization			
WSP Migration (Ph 1)			

	Baseline Budget	Actuals as of
	as of 12/2012	8/31/2013
Phase	Budget	Actuals
SDC Program	\$5,850,823	\$2,668,226
OB2 Heat Reduction	\$0	
SDC Facilities Build out	\$4,908,217	\$4,154,003
SDC Network Core Infrastructure	\$8,592,141	\$7,903,212
SDC Firewall Infrastructure	\$3,671,579	\$1,290,150
SDC Storage Infrastructure	\$4,294,613	\$3,265,609
CTS Cloud POC	\$1,000,000	\$309,154
CTS Move Phase 1	\$6,652,507	\$1,556,381
Virtual Tape Library	\$1,950,000	
CTS Move Phase 2	\$2,691,811	
OB2 Data Center Optimization	\$1,500,000	
WSP Migration (Ph 1)	\$2,000,000	
Total	\$43,111,691	\$21,146,735

Scope Key:

**G** = No issues are impacting scope

Y = Issues are being tightly managed, but may impact scope

R = Unresolved issues are preventing progress of identified scope

### Schedule Key:

**G** = On schedule

Y = Key milestones are more than 2 weeks late

R = Key milestones are more than 8 weeks late

This graphic shows the baseline budget for all SDC projects (includes both implementation costs and 5-yr maintenance commitments).

#### **Budget Key**:

G = Planned spending is within 5% to 10% of agreed upon budget

Y = Planned spending is within 11% to 20% of agreed upon budget

R = Planned spending is greater than 20% of agreed upon budget

<sup>\*</sup> Firewall budget/actuals continue beyond implementation to span the first maintenance cycle.

SDC Projects Status

Project	Planned for Next Reporting Period (August 19 – August 30)	Status of Work Performed this Reporting Period (August 19 – August 30)	Planned for Next Reporting Period (September 2 – September 13)		
SDC Program	Continue reviewing existing Design Decisions for SDC Business Plan impacts     Continue work on facilities procedures     Continue to work on Design Decisions     SDC-044 VRF Strategy Implementation     SDC-045 CTS Services VRF     SDC-046 LTS PBX     SDC-047 DMZ VRF	Review of Design Decisions #1-11 and #35-41 for SDC Business Plan impacts.     Completed support on facilities procedures     Continued to work on Design Decisions     SDC-044 VRF Strategy Implementation     SDC-045 CTS Services VRF     SDC-046 LTS PBX     SDC-047 DMZ VRF	Review Design Decisions #12-34 for SDC Business Plan impacts      Continue to work on Design Decisions     SDC-044 VRF Strategy Implementation     SDC-045 CTS Services VRF     SDC-046 LTS PBX     SDC-047 DMZ VRF		
SDC Facilities Prepare the SDC facility for customers. Includes preparing the critical environment (electrical/mechanical), floor space and physical security for customers.	<ul> <li>Updates made to the DRAFT SDC Physical Security Policy and submitted back to HR for review.</li> <li>Work on a communication plan for implementing Draft Standard Operational Procedures (SOP's) 1.0 for space management.</li> <li>Work Plans (MOPs) are being evaluated and approved for Provider and Support Space construction as needed. Provider space is on track for completion on October 1st 2013.</li> <li>Review the bill of materials for Data Hall 1 phase 3 enclosures build out and Power infrastructure.</li> <li>Continue work on defining the requirements for completing the DH-2 portion of the high level design.</li> </ul>	<ul> <li>Completed updates to the DRAFT SDC         Physical Security Policy and awaiting approval from HR     </li> <li>Continued work on a communication plan for implementing Draft Standard Operational Procedures (SOP's) 1.0 for space management.</li> <li>Evaluated Work Plans (MOPs) and approved for Provider and Support Space construction as needed. Provider space is on track for completion on October 1st 2013.</li> <li>Continued reviewing and approve the bill of materials for Data Hall 1 phase 3 enclosures build out and Power infrastructure.</li> <li>Continued work on defining the requirements for completing the DH-2 portion of the high level design.</li> </ul>	<ul> <li>Receive approval on DRAFT SDC Physical Security Policy from HR</li> <li>Continued Work on a communication plan for implementing Draft Standard Operational Procedures (SOP's) 1.0 for space management.</li> <li>Work Plans (MOPs) are being evaluated and approved for Provider and Support Space construction as needed. Provider space is on track for completion on October 1st 2013.</li> <li>Complete Bond fund decision package and gain approval to order Data Hall 1 phase 3 enclosures build out and Power infrastructure.</li> <li>Continued work on defining the requirements for completing the DH-2</li> </ul>		
SDC Network Core Phase 2 Establish the network core in the SDC Data Hall 2.	Project initiation activities planned	No activity during this reporting period	portion of the high level design.  • Project initiation activities planned		
SDC Storage Infrastructure The optimized storage solution was implemented in April 2013. Close-out tasks underway include production monitoring and portal deployment.	<ul> <li>Continue developing a Statement of Work for the Watch4Net implementation – expected completion by August 30, 2013</li> <li>Continue documenting Service Level Objectives – expected completion by September 16, 2013</li> </ul>	Continued Statement of Work for the Watch4Net implementation in review by EMC     Continued documenting Service Level Objectives – expected completion by September 16, 2013	Continue Statement of Work for Watch for Net implementation. Estimate completion by end of Sept.     Continue documenting Service Level Objectives – expected completion by September 16, 2013     EMC resident will be onsite in Sept to assist with Storage Health Check/Tuning, Performance Monitoring, Customized Reporting, and Storage Operations		

Project	Planned for Next Reporting Period (August 19 – August 30)	Status of Work Performed this Reporting Period (August 19 – August 30)	Planned for Next Reporting Period (September 2 – September 13)
Cloud Utility Servers Project Refresh Server Provisioning infrastructure and provide a cloud utility platform for CTS customers.	Validate documents submitted by VMware regarding Use Case Definitions, Architectural Design, Configuration Workbook, Logical Cloud Design and Installation and Configuration Procedures	Continued validating final documents submitted by VMware regarding Use Case Definitions, Architectural Design, Configuration Workbook, Logical Cloud Design and Installation and Configuration Procedures.	Prepare for Cloud PoC Wrap-Up Phase to include sign off of final documentation
CTS Move Phase 1 Move selected CTS equipment that best alleviates the heat issue in OB2.	Physical Moves     Return IBM Chassis from OB2 to Lab     Move servers in physical move group 14     and SGN Cluster Host 10      Virtual Moves     Move servers in virtual move groups 22-26	Physical Moves     77 of 111 physical servers have been moved to date     Returned IBM Chassis to the Lab     Migrated physical move groups 14 and SGN Cluster Hosts 10, 2 and 3 to the SDC      Virtual Moves     209 of 373 virtual servers have been moved to date     Successfully migrated Virtual Move Groups	Physical Moves      Prepare to move LNI physical group 15      Virtual Moves
WSP Migration (Ph 1) Plan and execute the first phase of migrating the WSP data center to the	Schedule internal meeting to discuss     Exchange migration onto the new F5 Load     Balancers     Continue reviewing options for WSP core     network connectivity in the SDC.     Continue work on SLA.	<ul> <li>Scheduled internal meeting to discuss Exchange migration onto the new F5 Load Balancers</li> <li>Continued reviewing options for WSP core network connectivity in the SDC.</li> <li>Continued work on SLA.</li> <li>Updated airflow configuration.</li> </ul>	<ul> <li>Move servers in virtual move group 27</li> <li>Prep for migrations of LNI virtuals and CSD MGT Cluster 1 &amp; 2</li> <li>Exchange load balancer migration is tentatively scheduled for 10/27</li> <li>Continue reviewing options for WSP core network connectivity in the SDC.</li> <li>Continue work on SLA.</li> </ul>
SDC.  Virtual Tape Library Disaster Recovery (VTL)  Procure additional VTL equipment to eliminate the tape backup system and support mainframe disaster recovery.	Continue to develop high level design - expected completion by Sept 30, 2013 Continue to review/revise project charter - expected completion by Sept 6, 2013 Complete documenting requirements - expected complete by August 30, 2013 Continue to determine procurement strategy	Continued to develop high level design - expected completion by Sept 30, 2013 Continued to review/revise project charter - expected completion by Sept 13, 2013 Completed documenting requirements Continued to determine procurement strategy	Continue to develop high level design - expected completion by Sept 30, 2013     Project charter signed  Procurement strategy determined
CTS Move Phase 2 Continue the progress of Phase 1 by moving additional CTS equipment to the SDC.	Continue to confirm equipment inventory to inform the schedule and budget process	Continued to confirm equipment inventory to inform the schedule and budget process	Continue to confirm equipment inventory to inform the schedule and budget process

Project	Planned for Next Reporting Period (August 19 – August 30)	Status of Work Performed this Reporting Period (August 19 – August 30)	Planned for Next Reporting Period (September 2 – September 13)
OB2 Data Center Optimization	No activity planned for next reporting period.	No activity planned for next reporting period.	No activity planned for next reporting period
Reconfigure remaining equipment in OB2 to optimize airflow and cooling.			

**External Project Collaboration** 

External Project (			
External Project	Planned for Next Reporting Period (August 19 – August 30)	Status of Work Performed this Reporting Period (August 19 – August 30)	Planned for Next Reporting Period (September 2 – September 13)
NAS Design and implement a new NAS gateway to replace the legacy EMC Cellerra NAS.	<ul> <li>Continue working on the Installation Worksheets and send to vendor</li> <li>Production hardware installation and configuration is scheduled for Aug 26<sup>th</sup></li> </ul>	<ul> <li>Continued working on the Installation Worksheets and send to vendor</li> <li>Completed production hardware installation and configuration</li> </ul>	Continued working on the Installation Worksheets and send to vendor - Completed
Firewall Migrations Migrate 95+ firewalls to the SDC	<ul> <li>Continue scheduling cutovers for MPLS complex firewalls</li> <li>Continue working on follow up meeting with partner firewall customers.</li> <li>Schedule Border FW migration walk-through with customers</li> <li>Prep for cutover Firewall cutover on 9/12.</li> <li>Cut over PGN VRF on 8/21.</li> </ul>	<ul> <li>Continued scheduling cutovers for MPLS complex firewalls</li> <li>Continued working on follow up meeting with partner firewall customers.</li> <li>Scheduled Border FW migration walk-through with customers</li> <li>Continued to prep for cutover Firewall cutover on 9/12.</li> <li>Rescheduled and successfully cutover PGN VRF on 8/28.</li> </ul>	<ul> <li>Continue scheduling cutovers for MPLS complex firewalls</li> <li>Continue working on follow up meeting with partner firewall customers.</li> <li>Continue to prep for Firewall cutover on 9/12.</li> <li>Prep for firewall cutover on 9/4</li> </ul>
Data Migrations	Migrate IBM Mainframe data     Migrate FamLink Prod     Complete LNI onboarding	Didn't complete IBM Mainframe data migration     Completed FamLink Prod migration     Continued working on LNI onboarding     Completed Unisys Mainframe	Complete IBM Mainframe data migration     Prepare LNI storage

**Top Issues \* Issue Key**: *Green* = Issue does not require action within 30 days, *Yellow* = Issue requires action within 30 days, *Red* = Issue requires action within 10 days or less

Issue #	Summary Description	Assigned	Priority (R,Y,G)	Opened Date/by	Next Review Date	Target Resolution Date	Comments/Resolution	Status
	Need to finalize the strategy for the TSD\LTS PBX and supporting infrastructure migration	Molly/Dan	O	8/13/13	10/16/13		LTS documented the options and associate costs to help determine the migration strategy.	Open
253	Need to define strategy for migration of remaining TSD Networking Infrastructure, particularly K20.	Molly/Dan	G	8/13/13	10/16/13	TBD	The strategy for migrating K20 out of OB2 needs to be documented.	Open

### **Issues Closed this Period**

Issue #	Summary Description	Assigned	Priority (R,Y,G)	Opened Date/by	Next Review Date	Target Resolution Date	Resolution	Status
251	Need to finalize the Unisys enclosure strategy	Doug	0	8/13/13	9/1813		The mainframes will move intact in current enclosure with cabling remediation where necessary.	Closed
249	TSM back-up speed slow and may impact migrations.	Gordon	G	8/08/13	8/31/13		Cause was confirmed and work to resolve the issue was completed on August 25 <sup>th</sup> .	Closed

# **Change Requests \***

No.	Description	Requestor	Request Date	Assigned	Cost Impact	Schedule Impact	Status
	N/A						

Status (Submitted, Proposal, Approved, Opened, Resolved, Verified, Closed)

Top 5 Risks \*

TOP	5 Risks *								
ID	Risk Description	Risk Category	Level of Impact	Likelihood	Schedule	Ability to Meet Deadline	Risk Mitigation Comment	Due Date & Action	Assigned To
1	Customers that were expecting to come into the SDC right away must now wait longer, which has end of life/investment implications	Man	3	R	G	G	Communicate with customers the new plan and schedule.	Ongoing	Program Manager
2	Timing may force a need to place hardware in OB2, which has an adverse impact on the heat reduction effort.	Сар	2	Y	G	G	<ul> <li>Work with customers to identify solutions that minimize additional heat in OB2.</li> <li>Institute OB2 heat reduction initiatives to turn off unused servers</li> <li>Delay implementation of new hardware in OB2 as late as possible</li> </ul>	Ongoing	Facilities
3	Because the project is large and includes substantial logistical challenges involving multiple projects/agencies, interdependencies will be complex and could be overlooked.	Man	1	R	G	G	<ul> <li>Apply project management practices to manage the effort.</li> <li>Break the work down into small and logical units.</li> <li>Use tools to track tasks, dependencies, issues, risks, etc. and automate the planning and communications as much as possible.</li> <li>Implement migration approaches that minimize impacts of system dependencies, such as spanning the network between the OB2 and SDC data centers.</li> <li>Use development and test platforms to verify system dependencies.</li> </ul>	Ongoing	Sr. Project Manager
4	Even though the scope has been reduced to better match the budget, it may be insufficient. Several items remain unfunded.	Res	1	R	G	G	<ul> <li>Request funding for unfunded projects</li> <li>Identify other funding sources (if possible)</li> <li>Reduce project scope</li> <li>Back-log unfunded projects</li> </ul>	Ongoing	Program Manager
5	Resource Conflict – Program relies on functional staff with competing priorities.	Res	1	R	G	Y	<ul> <li>Provide clear management guidance on priorities and carefully manage functional staff to minimize conflicts in priorities and work tasks.</li> <li>Expand resource management and track task assignments to the resource level. Identify areas in the plan where resource loading indicates a problem and take appropriate action.</li> </ul>	Ongoing	Sr. Project Manager

**Risk Category** = (Res)ources; (Man)agement; (Tec)hnology; (Fun)ctional; (Dev)elopment; (Int)erfaces; (Sec)urity; (Usa)bility; (Ava)ilability; (Per)formance; (Cap)acity; (Sca)lability; (Ext)ernal.

Level of Impact Key:

1=major impact 2=significant impact 3=minor impact 0=no impact

Likelihood Key:

G = Low.

Y = Moderate

R = High

Schedule Key:

G = on schedule
Y = Less than 30 days behind schedule (caution) R = More than 30 days behind schedule (warning

### **Ability to Meet Deadline Key:**

**E** = based on current information, it appears manageable

Y = there are significant obstacles or areas of uncertainty or concerns

R = there are clearly identifiable threats or deterioration of ability to manage and control

## **Steering Committee Action Items**

Item #	Item Description	Assigned	Date Assigned	Date Due
	N/A			